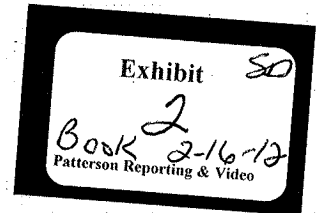


Angela Schenk

From: Ross, Scott [Scott.Ross@KDA.KS.GOV]
Sent: Friday, September 16, 2011 4:02 PM
To: Angela Schenk; Dale Book
Subject: FW: KBID drains

Follow Up Flag: Follow up
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Angela,

This is what I got from Kenny, if you need some additional specifics, feel free to call him and ask, he is very willing to help us if he can. His number is 785-374-4514. They get to work about 6:30 AM and quit about 3:00 PM so you'll need to call in that time frame.

Scott

From: Kenneth Nelson [mailto:kbid@courtland.net]
Sent: Friday, September 16, 2011 8:55 AM
To: Ross, Scott
Subject: FW: KBID drains

Your questions have long and short answers to them. I will try to give you my longer short version.

I would say 100% of the district is drained as defined by the Bureau of Reclamation drainage program that started in the '60s and ended in the late '80s with app. 200 miles of tile and 30 miles of open drains involved. This program included both upper and lower portions of the district. They were installed by contractors and are being paid for under our repayment contract. These drains average 8' deep and were designed to cover basins solving seepage from canals and deep percolation caused by irrigation. The size of this pipe ranges from 6" at the smallest and not too much of that, up to 15" and not too much of that. The average was probably 8 or 10". The program started using clay tile with slipped joints and changed to pvc when it became readily available. They are all gravel packed tile. We have spec manuals for all of the Bureau drains and right of way was taken for them. The map we keep on our counter and hanging on the wall in the back room identifies the basins and shows the drains in an overall view.

When the Bureau program came to an end, the district purchased a trencher and finished the few small areas the Bureau had planned but did not complete under their program. When that was complete, we started picking off wet areas in farmers fields when they complained to us about drainage. The drains we install are shallow usually no deeper than 6' and sized from 4 to 8" with the majority of it 4" and are targeted at the wet spot. Our tile is not gravel packed but has worked quite well. We do not take right of way and we call these the farmers drains. I would estimate we have 70 miles of drains that we installed. We do not have specs for these but I do have sketches which I made usually off land area sheets. We still do some of this but with the increase in pivot irrigation and burial of laterals it has greatly diminished. Our main canals continue to get older and leak more than in the past so the problem will not go away.

Hopefully this answers your questions. If not feel free to contact me.

Kenny

-----Original Message-----

From: Don Lieb [mailto:kbid@courtland.net]

Sent: Friday, September 16, 2011 7:51 AM
To: KBID
Subject: FW: KBID drains

From: Ross, Scott [<mailto:Scott.Ross@KDA.KS.GOV>]
Sent: Thursday, September 15, 2011 12:28 PM
To: 'Kenneth Nelson'
Subject: KBID drains

Kenny,

We have been working on the drainage system in KBID and have some questions.

What is the percentage of KBID that is "drained"? If you can give me an idea on upper and lower that would be great.

Within the two areas what is the drain spacing and is there any difference between upper and lower?

We can only find a fairly rough mapping of the drains, do you have anything that will tell us the size of the piping, 6, 8, 10 etc.

Thanks,

Scott

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